# IBL Data Sheet

Code No. 10349F

**Anti-Human**
**c-Kit (12A8) Mouse IgG MoAb (Frozen)**

Volume : 100 μg (1.0 mg/mL, 0.1mL)

**Introduction** : The proto-oncogene *c-kit* encodes a transmembrane tyrosine kinase receptor, and its ligand for c-Kit receptor has been identified as the stem cell factor (SCF). Recent experimental studies have shown that c-Kit plays a key role in the development of a component of the pacemaker system that is required for generation of autonomic gut motility. These studies further suggest that interaction of the c-Kit and SCF is essential for development of enteric nervous system. Recently, it is reported that the c-Kit may be an important marker for gastrointestinal stromal tumors (GISTs) which may originate from the interstitial cells of Cajal (ICCs).
This monoclonal antibody recognizes c-Kit by W.B. and I.P. applications and it enables FACS analysis of c-Kit-expressing cells. It has been confirmed that the addition of this antibody does not induce ligand-binding-dependent phosphorylation of c-Kit and it may be used as a neutralizing antibody.

**Antigen** : Recombinant protein of extracellular domain of human c-Kit

**Source** : Mouse-Mouse hybridoma
(X63-Ag8.653×BALB/c spleen cells)

**Clone** : 12A8 **Subclass :** $IgG_1$

**Purification** : Affinity Purified with protein A

**Form** : Frozen product in PBS ( Non-containing BSA and $NaN_3$, sterilized)

**Stability** : 2 years at –20 ℃

**Application** : This antibody can be used for neutralization assay at 10 μg/mL against the phosphorylation induced by ligand-binding at 20ng/mL.

: This antibody can be used for western blotting at 1～5 μg/mL.
: This antibody can be used for immunoprecipitation at 3～5 μg/mL.
: This antibody can be used for FACS at 0.1～0.5 μg (per $1×10^5$ cells).

**Specificity** : Confirmed by western blotting with SY cell.



**Immuno-Biological Laboratories Co., Ltd.** URL: http://www.ibl-japan.co.jp E-Mail: do-ibl@ibl-japan.co.jp